# FNT COOPERATION TREAT

### From the INTERNATIONAL BUREAU

### **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

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	 		_	

To:

**Assistant Commissioner for Patents United States Patent and Trademark** Office **Box PCT** Washington, D.C.20231 **ETATS-UNIS D'AMERIQUE** 

Date of mailing (day/month/year) in its capacity as elected Office 23 August 2000 (23.08.00)

International application No.

PCT/US99/26241

08 November 1999 (08.11.99)

International filing date (day/month/year)

Applicant's or agent's file reference 1909.003PC02

Priority date (day/month/year) 06 November 1998 (06.11.98)

**Applicant** 

CARCAGNO, Carlos, Miguel et al

X in the demar	ice is hereby noti	nternational Preliminary Exami	ining Authority on:		
· ·		05 June 2000 (05.06.	.00)	P = 0	
in a notice e	fecting later elect	tion filed with the International	Bureau on:		•
2. The election X	was				
	was not				
	-itif 10	onths from the priority date or,	where Rule 32 applies,	within the time limit	under
made before the ex Rule 32.2(b).	piration or 19 mc				
	piration of 19 mc				

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Pascal Piriou

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35



## **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1792.003PC02	FOR FURTHER ACTION		Transmittal of International Search Report ) as well as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)					
PCT/US99/26241	08 NOVEMBER 1999		06 NOVEMBER 1998					
Applicant STERRENBELD BIOTECHNOLOGIE	Applicant STERRENBELD BIOTECHNOLOGIE NORTH AMERICA, INC.							
according to Article 18. A copy is being	This international search report has the prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.							
It is also accompanied by a	copy of each phot art doc	ament cited in this it						
1. Certain claims were found	unsearchable (See Box I	).						
2. Unity of invention is lacking	ng (See Box II).							
3. The international application international search was carr			amino acid sequence listing and the					
	filed with the international	application.						
	furnished by the applicant	separately from the	international application,					
	but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.							
	transcribed by this Author	ity.						
4. With regard to the title, X	the text is approved as su	bmitted by the applic	cant.					
	the text has been establish	ned by this Authority	to read as follows:					
5. With regard to the abstract,	the text is approved as su	hmitted by the annli	cont					
			e 38.2(b), by this Authority as it appears					
		t may, within one r	nonth from the date of mailing of this					
6. The figure of the drawings to be p	oublished with the abstract	is:						
Figure No	as suggested by the applic	cant.	X None of the figures.					
i ii	because the applicant faile	ed to suggest a figur	L					
	because this figure better	characterizes the inv	rention.					



International application No. PCT/US99/26241

(703) 308-0196

Telephone No.

			PCT/US99/2624	1				
IPC(7) US CL	IPC(7) :C07K 1/14, 1/18, 1/20, 1/30, 1/34, 1/36, 14/505							
Minimum d	ocumentation searched (classification system followed	by classification sym	bols)					
U.S. :	530/380, 412, 414, 416, 417, 418, 419							
Documentat NONE	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE							
MEDLINI	ata base consulted during the international search (na. E., CAPLUS, EMBASE, SCISERACH ms: erythropoietin, hyrop!oic ::iromatography, anion			search terms used)				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where app	propriate, of the releva	nt passages	Relevant to claim No.				
Y -	US 4,667,016 A(LAI et al) 19 May especially col. 4, lines 4-56.	1987, see entire	e document,	1-12				
X				13-16				
Y -	Chem. abstr., Vol. 100, No. 25, 18 USA), page 77, column 2, the abstract	1-12						
X								
				•				
	er documents are listed in the continuation of Box C	<u>. –</u>	t family annex.					
'A' do	ecial categories of cited documents: cument defining the general state of the art which is not considered be of particular relevance	date and not in		ernational filing date or priority lication but cited to understand invention				
"L" do	rlier document published on or after the international filing date cument which may throw doubts on priority claim(s) or which is	considered nov		e claimed invention cannot be tred to involve an inventive step				
*O* do	ed to establish the publication date of another citation or other ecial reason (as specified)  cument referring to an oral disclosure, use, exhibition or other	considered to combined with	involve an inventive one or more other suc	e claimed invention cannot be step when the document is documents, such combination				
'P' do	eans cument published prior to the international filing date but later than priority date claimed	-	to a person skilled in abor of the same pater					
	actual completion of the international search	Date of mailing of th	e international se	arch report				
23 FEBR	UARY 2000	07 MAR						
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231  Authorized office ANISH GUPTA								

Facsimile No. (703) 305-3230



International application No. PCT/US99/26241

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y X	Chem. abstr. Vol. 126, No. 5, 03 February 1997 (Columbus. OH, USA), page 315, column 2, the abstract No. 57095j, BURG et al. 'Human erthropoietin recombinant production by fermentation and protein purification using a series of chromatographic steps.' PCT Int. Appl. WO 96 35, 718. 14 November 1996.	1-2  13-16

09/830964

PATENT COOPERATION TREATY

## **PCT**

F.EC'D 0 3 AUG 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	T				
1909.003PC02	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/m	month/year) Priority date (day/month/year)			
PCT/US99/26241	08 NOVEMBER 1999	06 NOVEMBER 1998			
International Patent Classification (IPC) of Please See Supplemental Sheet.	or national classification and IPC	С			
Applicant STERRENBELD BIOTECHNOLOGIE	NORTH AMERICA, INC.				
2. This REPORT consists of a the property and is the property and its property and is the property and is the property and is	total of sheets.  panied by ANNEXES, i.e., sheete basis for this report and/or she ion 607 of the Administrative I	ets of the description, claims and/or drawings which have			
3. This report contains indications relating to the following items:  I X Basis of the report  II Priority  III Non-establishment of report with regard to novelty, inventive step or industrial applicability  IV Lack of unity of invention  V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement  VI Certain documents cited  VII Certain defects in the international application  VIII Certain observations on the international application					
Date of submission of the demand  05 JUNE 2000		of completion of this report			
13 10 NE 2000	18	3 JUNE 2001			
Name and mailing address of the IPEA/US  Commissioner of Patents and Trademark Box PCT  Washington, D.C. 20231	ks	SISH GUPTA TAUNENCE FOR			
Facsimile No. (703) 305-3230	<del></del>	none No. (703) 308-0196			

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/26241

1.	Basis	of the re	port		·			
1. \	With reg	ard to the el	lements of the inter	mational applica	ation:*			
Г			onal application					
Ī	_	description						
L	스 pag	ges	(See Attached)	)				, as originally filed
								, as originally med , filed with the demand
	pag	ges			, filed w	ith the letter of	f	_ , med with the demand
_	_				,			
L		claims:						
			(See Attached)					, as originally filed
								tatement) under Article 19
	pag	ges		<del></del>				_ , filed with the demand
	pag	ges		, filed	with the lette	er of		
Г	X the	drawings						
L			(See Attached)					
								, as originally filed
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- [:	X the	sequence :	listing part of the	description:				
_	ـــ pag	es	(See Attached)					, as originally filed
	pag	es						, filed with the demand
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	the the	language ( language ( language of	of a translation to	furnished for f the internation	the purposes onal applicat	of international	l search (un e 48.3(b)).	which is: nder Rule 23.1(b)). nination (under Rules 55.2 and
3. V	orelimin T	агу ехаті	nucleotide and/ nation was carrie he international	ed out on the l	basis of the se	equence listing:	ternational :	application, the international
	filed	l together	with the interna	tional applica	tion in comp	uter readable fo	orm.	
Ē	_		sequently to this					
Ē	furn	ished subs	equently to this	Authority in	computer (e	dable form.		
	The inter	statement national ar	that the subseque	ently furnished I has been furn	written seque	ence listing does	not go bey	yond the disclosure in the
	The :					ible form is ident	tical to the v	writen sequence listing has
4. X	The	amendme	nts have resulted	d in the cance	ellation of:			
	X	the desc	ription, pages	none		_		
	X	the clain	ns. Nos.	none				
	x		ings, sheets/fig	none				
5.	This				mendments had	d not been mad-	ainaa shaar t	nave been considered to go
_	bevo	and the disc	closure as filed, as	indicated in the	e Supplementa	i Box (Rule 70.2	since they f	ave been considered to go
iri	placeme	nt sheets whom as "ori	hich have been fun	nished to the red	ceivine Office ii	n response to an i	invitation und	der Article 14 are referred to n amendments (Rules 70.16
		•	et containing suc	h amendments	must he referi	red to under item	n I and own	exed to this report

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/26241

V. Reasoned statement under Article 3: citations and explanations supportin	5(2) with rega	ard to novelty, inventive step or industrial applicable	ility;
1. statement			
Novelty (N)	Claims Claims	1-12 13-16	YES NO
Inventive Step (IS)	Claims Claims	1-12 13-16	YES
Industrial Applicability (IA)	Claims Claims	<u>1-16</u> NONE	YES
		NONE	. NO
purification, novelty of a product does not de is the same as or obvious from a product of a different process.  Claims 1-12 meet the criteria set out in PCT method of purifying recombinant human cryst teach purification of recombinant human cryst	erythropoietin.  man erythropoie is recombinant spend on its met the prior art, the  Article 33(2)-(4 hropoietin from hropoietin using in using different	tin (see col. 3, lines 63-69). The erythropoietin of the prior and human. Although the reference does not teach the method of production. If the product in the product-by-process claim lacks novelty even though the prior product was made, because the prior art does not teach or fairly suggest the cell cultures. The closes prior art of Lai et al. and Burg et a various chromatographic methodologies. The references it is aline precipitation. Therefore, the prior art does not fairly	od of claim de by

4

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US99/26241

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

**CLASSIFICATION:** 

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): C07K 1/14, 1/18, 1/20, 1/30, 1/34, 1/36, 14/505 and US Cl.: 530/380, 412, 414, 416, 417, 418, 419

#### I. BASIS OF REPORT:

This report has been drawn on the basis of the description, page(s) 1-19, as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the claims, page(s) 20-21, as originally filed.
page(s) NONE, as amended under Article 19.
page(s) NONE, filed with the demand.
and additional amendments:
NONE

This report has been drawn on the basis of the drawings, page(s) NONE as originally filed.
page(s) NONE, filed with the demand.
and additional amendments:
Pages 1-5, filed with the letter of 31 July 2000.

This report has been drawn on the basis of the sequence listing part of the description: page(s) NONE, as originally filed.
pages(s) NONE, filed with the demand.
and additional amendments:
NONE